

European C-MetAC

*European Integrated Center for
the Development of New Metallic Alloys and
Compounds*

***European C-MetAC Days 2021
December 6 – 9, 2021
(online)***

Schedule

Monday, December 6, 2021

13:00	M. Konkel and M. Wencka: <i>Workshop Equality and diversity in material science</i>
17:00	J. Ledieu, Nancy: <i>Welcome note</i>
<i>Chair person: Peter Gille, Munich</i>	
17:15	H. Schlich, MaTecK GmbH: <i>Metal single crystal growth: Examples and challenges in the development of special crystals and their applications</i>
17:45	M. Armbrüster, Chemnitz: <i>Hunting ideal functional materials for applications in corrosive environments</i>

Tuesday, December 7, 2021

<i>Chair person: Ana Smontara, Zagreb</i>	
9:00	S. Penner, Innsbruck: <i>Steering the Catalytic Properties of Intermetallic Compounds and Alloys in Reforming Reactions by Controlled in Situ Decomposition and Self-Activation</i>
9:30	M. Majewicz, Wrocław: <i>Possible Lifshitz point in the magnetic phase diagram of UNi₂Si₂ single crystals</i>
9:50	J. Juraszek, Wrocław: <i>Destruction of a sign-changing order parameter by artificial atomic defects in multiband superconductor PrOs₄Sb₁₂</i>
10:10	I. Mandal, Krakow: <i>Correlated Insulators in Twisted Bilayer Graphene</i>
10:30	break
<i>Chair person: Silke Bühler-Paschen, Vienna</i>	
11:00	P. Popčević, Zagreb: <i>Interaction of magnetic and electronic subsystems in Co intercalated 2H-NbS₂ seen by different probes</i>
11:20	S. Sekh, Krakow: <i>Circular dichroism as a probe for band topology in chiral semimetals</i>
11:40	J.-M. Hübner, Dresden and Lund: <i>The Borosilicide Rb₈B₈Si₃₈ with a Clathrate-I type structure: high-pressure synthesis, cage adaption and properties</i>
12:00	lunch
<i>Chair person: Magdalena Wencka, Poznan and Ljubljana</i>	
13:30	N. Kanas, Novi Sad: <i>Heterostructuring - an effective way to boost zT of CaMnO₃-based composites</i>
13:50	M. Uland, Chemnitz: <i>Chemical potential as guide in material development</i>
14:10	I. Antonyshyn, Dresden: <i>Isostructural M₂Pt {M=Al, Ga, In, Sn}: structure - chemical properties - electrocatalysis</i>

14:30	O. Shedwick, Liverpool: <i>Analysis of the surface structure of a Ga₃Ni₂ binary alloy using LEED & STM</i>
14:50	break
<i>Chair person: Janez Dolinšek, Ljubljana</i>	
15:20	A. Jelen, Ljubljana: <i>Structure and microstructure of Sc-Hf-Nb-Ta-Ti-Zr refractory high-entropy alloys</i>
15:40	A. Gačnik, Ljubljana: <i>Superconductivity of Sc-Hf-Nb-Ta-Ti-Zr refractory high-entropy alloys</i>
16:00	P. Koželj, Ljubljana: <i>Magnetism in the magnetically concentrated, randomly disordered and frustrated CoCrFeMnNi HEA</i>
16:20	T. Seyller, Chemnitz: <i>Deposition of CrCoFeNi thin films by magnetron sputtering</i>
17:00 – 19:00	<i>Poster session</i>

Wednesday, December 8, 2021

<i>Chair person: Iryna Antonyshyn, Dresden</i>	
9:00	C. Goyhenex, Strasbourg: <i>Atomistic approach of the $o\text{-Al}_{13}\text{Co}_4$ quasicrystalline approximant: point defects and surfaces</i>
9:30	O. Tiryaki, Chemnitz: <i>Investigating well-defined ZnPd/ZnO catalysts in methanol steam reforming</i>
9:50	M. Kotsch, Dresden: <i>Bell-Like $[\text{Ga}_5]$ clusters in $\text{Sr}_3\text{Li}_5\text{Ga}_5$</i>
10:10	L. Rößner, Chemnitz: <i>Electrochemical investigations on intermetallic compounds</i>
10:30	break
<i>Chair person: Yuri Grin, Dresden</i>	
11:00	Elise Pachoud, Grenoble: <i>Crystal growth at the Néel Institute</i>
11:20	J. Smietanska, Krakow: <i>Looking at the modulated structure of pathogenesis-related protein (Hyp-1) complex with ANS within the higher dimensional superspace approach</i>
11:40	L. Agnarelli, Dresden: <i>Mg_3Pt_2: Anionic Chains in a Eu_3Ga_2-Type Structure</i>
12:00	lunch
13:30	R. Cardoso-Gil, Dresden: <i>Ga_3Ir: a simple but complex material</i>
13:50	E. Gaudry, Nancy: <i>Two-dimensional metal structures revealed by evolutionary computations: $\text{Pb/Al}_{13}\text{Co}_4(100)$ as a case study</i>
14:10	I. Buganski, Krakow: <i>The atomic model of the Tsai-type quasicrystal with AKNt rhombohedral units</i>
14:30	N. Saadi, Liverpool : <i>Compression behaviours of a 3D-printed quasicrystal</i>

14:50	break
<i>Chair person: Marc de Boissieu, Grenoble</i>	
15:20	E. Svanidze, Dresden: <i>Compounds with mercury - complexity two ways</i>
15:40	C. Ruano M, Nancy: <i>2D OQC approximants in reduced SrTiO₃ grown on Pt(111)/Al₂O₃(0001)</i>
16:00	C.M.N. Kumar, Zagreb: <i>Structural investigation of super-ionic Cu_{2-x}Se</i>
16:20	G. de Laitre, Grenoble: <i>Dynamical properties of the incommensurately modulated Rb₂ZnCl₄ phase</i>
16:40	E. Pospíšilová, Bratislava: <i>Stable thin clathrate layers</i>
17:00	Concluding remarks

Thursday, December 9, 2021

9:00	Science Board Meeting
10:30	break
11:00	Governing Board Meeting and General Assembly
12:20	lunch
13:30	Online announcement of the oral and poster prizes